

University of Pretoria Yearbook 2022

Statistics 220 (STK 220)

Qualification	Undergraduate
Faculty	Faculty of Economic and Management Sciences
Module credits	20.00
NQF Level	06
Programmes	BCom (Informatics) Information Systems
	BCom (Law)
	BCom (Statistics and Data Science)
	BCom
	BCom (Economics)
	BCom (Investment Management)
	BIT (Information Systems)
	BSc (Computer Science)
	BSc (Information and Knowledge Systems)
	BSocSci (Philosophy, Politics and Economics)
	BSc (Meteorology)
Service modules	Faculty of Engineering, Built Environment and Information Technology
	Faculty of Humanities
	Faculty of Natural and Agricultural Sciences
Prerequisites	STK 210 GS
Contact time	1 practical per week, 3 lectures per week
Language of tuition	Module is presented in English
Department	Statistics
Period of presentation	Semester 2

Module content

Multivariate probability distributions. Sampling distributions and the central limit theorem. Frequentist and Bayesian inference. Statistical learning and decision theory. Simulation techniques enhancing statistical thinking. Supervised learning: linear regression, estimation and inference. Non-parametric modelling. Supporting mathematical concepts. Statistical algorithms. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.

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